ADMIN RECORD

Enclosure 3 96-RF-05685 Page 1 of 13

1996 ANNUAL UPDATE ENVIRONMENTAL RESTORATION RANKING

Rocky Mountain Remediation Services, L.L.C.

POCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

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The Rocky Flats Cleanup Agreement (RFCA, EPA 1996a), Attachment 4, contains the 1995 prioritized list of Environmental Restoration (ER) sites developed to select the top priority sites for remediation (DOE, 1995a). The list was developed to be used as an aid in planning and prioritizing remedial actions at Rocky Flats Environmental Technology Site (RFETS). The sequence of remediation activities at RFETS has generally followed the prioritization. Other factors that also influence the remediation sequence are funding, project cost, resource availability, data sufficiency, and integration with other remedial, and site activities. Prioritization accelerates the cleanup process of the worst sites first, and more quickly reduces risks to human health and the environment. The prioritization of cleanup targets also results in cost reductions by allowing better planning, and more efficient utilization of resources.

The 1995 prioritization methodology was developed by a working group of the United States Environmental Protection Agency (EPA), the Colorado Department of Public Health and the Environment (CDPHE), the Department of Energy (DOE), Kaiser-Hill, and Rocky Mountain Remediation Services (RMRS) staff and was implemented by RMRS. The result was a prioritized list of ER sites, including a list of ranked sites that require more information (DOE, 1995a). In accordance with RFCA Attachment 4, the ranking has been updated for 1996. The evaluation process is essentially the same as was used in the September 1995 ranking, with the following exceptions.

- Action Level Framework (ALF) (RFCA, Attachment 5) values were used instead of Programmatic Risk-Based Preliminary Remediation Goals (PPRGs),
- The scoring scale was adjusted to reflect the greater range in ALF ratios,
- Impact to surface water was evaluated instead of mobility,
- A professional judgment factor was added to account for process knowledge.
- Groundwater plumes were evaluated and ranked separately from the contaminant source.
- Metals data for subsurface soils were not used, as ALF values were not available in time to be included in the evaluation, and
- The secondary evaluation, which included project cost and schedule estimates has been omitted due to other planning activities ongoing at the RFETS

General Methodology

The ranking process detailed in RFCA Attachment 4 has been slightly modified for 1996 to incorporate the ALF and process knowledge. This ranking was generated by using concentrations of contaminants present at different sites, action levels for the appropriate media and location, and factors for impact to surface water, potential for further release, and

professional judgment to develop a score for each site. The scores were then ranked to determine which sites have the highest priority. This methodology is conservative and is used only to generate a list to prioritize remedial actions, and pre-remediation investigations. It is not meant to replace a formal risk assessment.

The following steps were used in the 1996 ranking process

- The existing analytical data were compared to background data,
- Data exceeding background were compared to the ALF Tier I and Tier II values,
- Ratios of Tier II ALF values to contaminant concentrations/activities were used for the ranking, unless Tier II values were not available,
- A column was added to the ranking sheet to note Tier I exceedances,
- The resulting ratios were converted to a score of 1 to 10,
- The impact to surface water was evaluated, and assigned a factor of 1 to 3
- The potential for further release was evaluated, and a factor of 1 to 3 applied,
- Process knowledge of the site was evaluated, and a professional judgment factor of 0 5 to 2 applied, and,
- The results of the previous steps were multiplied to generate a score per site. This score was used to rank the ER sites

Analytical data in RFEDS from 1990 to the present were evaluated for three media, surface soils, subsurface soils, and groundwater. The analytical data were extracted from RFEDS and compiled into data sets by media and analytical suite. The media-specific analytical data were compared to the media- and chemical-specific background UTL_{99/99}. All data above the background UTL_{99/99} were then compared to the appropriate Tier I and Tier II ALF values in RFCA. The draft radiological ALFs (DOE, 1996b) for surface soils were applied to both surface and subsurface soils. The ALF values for metals in subsurface soils were not agreed upon in time to be included in the 1996 ranking and metals data from subsurface soils were not used in the ranking. A review of the data suggests that this will not effect the ranking significantly

All exceedances of the Tier I and II ALF values were tabulated for groundwater, subsurface soils, and surface soils at each sample location. The locations were plotted on maps using available survey information. Where no survey data is available, approximate locations were derived from work plan maps. The sample locations were assigned to areas-of-concern, IHSSs, and groundwater plumes based on the media, location of the exceedance, and the analyte.

Media Specific Evaluations

Groundwater - Sitewide groundwater data were compared to background UTL_{99,99} values presented in the 1993 Background Geochemical Characterization Report (DOE 1993)
Groundwater data were then compared to the Tier I and Tier II ALF values All well locations

where a chemical concentration exceeds a Tier I or Tier II ALF value were plotted. The locations were then associated with the most probable source area and known groundwater plumes. Ratios of analyte concentrations to the Tier II ALF values were used in the scoring

Subsurface Soil - All available subsurface soil data collected since 1990 were compared to subsurface soil background UTL_{99/99} values (DOE 1993) The data for volatile organic compounds were compared to the Tier I ALF values (there are no Tier II values), the radiological activities were compared to the surface soil Tier I and Tier II ALF values The ALF values for metals in subsurface soils were not agreed upon in time to be included in the 1996 ranking. The locations of all borings, where a chemical concentration exceeded an ALF value, were plotted and associated with the most likely source area.

Surface Soil - All available surface soil data for metals and radiologicals were compared to UTL, background values computed from data presented in the Background Soil Characterization Program (DOE 1995b). The inorganic and radiological results above background and all data for organic compounds were compared to the Tier I and Tier II ALF values for surface soil. Within the boundaries of the Industrial Area Operable Unit (OU), the surface soil data were compared to office worker ALFs. In the Buffer Zone OU, the surface soil data were compared to open-space ALFs. The ALF exceedances were plotted to determine the most likely source area, IHSS or group of IHSSs, using the most common wind patterns. Ratios of analyte concentrations to the Tier II. ALF values were used in the scoring.

Chemical Score Tabulation

All ALF exceedances were tabulated by IHSS, group of IHSSs, or source area. The chemical score was calculated for each media, within each site, by adding the maximum ratio for each analyte per media. The groundwater, subsurface soil, and surface soil scores were then summed to generate a total score per site. This is a conservative approach that allows the sites to be judged on a uniform basis.

A separate score was derived for each groundwater plume by evaluating only the groundwater exceedances. A risk score was calculated for each plume, as above, by adding the maximum ALF ratios for groundwater contaminants associated with all sites within the estimated plume area. This method results in groundwater being used twice, once in the scoring of sources, and again for the scoring of groundwater plumes.

The total chemical scores were graded using the following table so that the risk component of the ranking system would be weighted similarly to the other components. The table has been adjusted from the 1995 methodology due to the increase in the range of the scores.

Total Chemical Score	ALF/PPRG Score
>20001	10
10001-20000	9
5001-10000	8
1001-5000	7
501-1000	6
251-500	5
126-250	4
75-125	3
26-75	2
1-25	l

Surface Water Impacts

The impact of contamination at a site on surface water quality was evaluated and each site was assigned a factor of 1 to 3 to indicate the impact on surface water from each site. The impact to surface water factors were assigned on a scale of 1 to 3 as follows

- Contaminants that are immobile in the environment or for which there is no pathway to surface water. Radionuclides and metals were given a score of one unless adjacent to surface water, or on a steep slope bordering surface water. A factor of one was used where engineered structures are in place that prevent the spread of contaminants.
- This rating was applied where contaminants have or are expected to have an impact on surface water at the Tier II ALF level (MCL)
- This rating will apply where there is a documented or probable impact to surface water above the Tier I ALFs (100 x MCL)

Potential for Further Release

This factor takes into account the potential for additional release of contaminants into the environment and includes cross-media movement of contaminants within the environment. Sites were assigned a value of 1 to 3 based on the following criteria.

Sites where contaminants are not present as free product, nor in very high concentrations, and/or show no cross contamination of environmental media. A factor of one was used where engineered structures are in place that effectively prevent the release or migration of contaminants.

- 2 Sites where high concentrations in soil may be present and/or where there is a potential for cross media movement of contamination
- 3 Sites where there is suspected or known free product, significant levels of contamination exists, and/or where cross contamination of environmental media is present or likely

Professional Judgment

A professional judgment factor was added to this year's ranking based on process knowledge not represented by the other factors. The reasons for assigning the professional judgment factor are given in the comment column of the ranking. The values for this factor are

- The ranking overestimates the priority of a site. This was used if a risk assessment or conservative screen has been completed indicating an acceptable risk, but the site ranks high on the priority listing
- 1 The ranking reflects process knowledge of a site
- The ranking underestimates the priority of a site. This may be due to a lack of data, coupled with process knowledge of significant releases

Total Score and Ranking

The total score was calculated by multiplying the ALF score times the impact to surface water, potential for further release, and professional judgment factors. A formal risk assessment is a more precise evaluation of the same data, and, where risk assessment data exist, it was used to refine the ranking of the sites through the use of the professional judgment factor.

Where insufficient data currently exist to rank sites, these sites were assigned to the category of needs further investigation (INV) and ranked using the professional judgment factor. This placed them on the ranking above known low-risk sites. As data become available, the ranking for these sites will be updated

The Solar Ponds groundwater score was calculated without using data from an upgradient well which shows the effects of an upgradient plume. This well was used in the calculations for the groundwater score for IHSS 118 1 and the carbon tetrachloride spill plume.

Where analytical data and process knowledge indicate that there are localized areas of contamination, the associated data was eliminated from site evaluation, and was assigned to a hot spot list. These sites will be evaluated to verify that these are hot spots. Most of the localized extent sites are PCB sites, including a PCB site in IHSS 150 6 and those surrounding Bowman's

Pond The Old Landfill has analytical data indicating the presence of small radiological anomalies at the surface Best management practices will be used on these hot spots as part of the final remedy for the Old Landfill

Radium 226 and 228 data were not evaluated for the following reasons

- Radium 226 and 228 are not listed as having be used at RFETS in either the Historical Release Report (DOE, 1992) or the Rocky Flats Toxicologic Review and Dose Reconstruction, Task 3/4 Report (ChemRisk, 1992)
- The decay chains and half-lives of decay products make it highly unlikely that significant amounts of radium 226 or 228 would have accumulated by radioactive decay of radionuclides known to have been used at RFETS
- The soils and groundwater in the foothills to the west of RFETS are known to have high levels of both uranium (total) and radium 226
- The background amount for radium 226 in surface soil has a PPRG ratio of 48 Therefore, any surface soil analytical result above background would skew the prioritization score to a higher result. This is not justified given the information on usage and natural occurrence

Results

The use of the groundwater ALF values in the 1996 ranking and the inclusion of the groundwater plumes increased the influence of groundwater on the final priority listing. This lowered the tank sites on the priority list, although they remain among the top ranked sites. Some sites also moved on the basis of newly available data. Overall, highest priority sites were reshuffled but remained near the top of the listing.

Remediation of sources of contamination in 7 of the 15 top ranked IHSSs has been completed or interim action and stabilization has been completed during FY96 (Table 1). The top three ranked IHSSs, 109 (Ryan's Pit), IHSS 110 (Trench T-3), 111 1 (Trench T-4) have been completed. The 4 other sites in the top 15 that have been stabilized and interim actions completed are tank T-40, tanks T-2/T-3, tank T-14, and Tank T-16N in IHSS 121. These tanks were cleaned and foamed, but remain in the ground

Trench T-1 (IHSS 108) was scored using data reported in the Historical Release Report (DOE 1992) from a drum that was uncovered and sampled in a 1982 event. This decision was made based on process knowledge and the conclusion that direct sampling of the trench will be very hazardous. With the inclusion of this data, IHSS 108 ranks number 5 on the listing

One groundwater plume ranked in the top 10 The Mound Plume, which is located just east of the PA and is migrating toward South Walnut Creek. The 903 Pad & Ryan's Pit Plume, which is migrating southeastward from the 903 Pad and Ryan's Pit toward Woman Creek ranked number.

12 There are 6 plumes ranked in the top 20 of the priority listing.

References

- Environmental Protection Agency, State of Colorado, and Department of Energy
 Final Rocky Flats Cleanup Agreement CERCLA VIII-96-21, RCRA(3008(h)) VIII-9601, State of Colorado Docket # 96-07-19-01 July 19, 1996
- Department of Energy, Environmental Protection Agency, Colorado Department of Public Health and the Environment 1996 Action Levels for Radionuclides in Soils for the Rocky Flats Cleanup Agreement, Preliminary Draft June 27, 1996
- Department of Energy 1992 Historical Release Report for the Rocky Flats Plant June, 1992
- Department of Energy 1993 Background Geochemical Characterization Report September 30, 1993
- Department of Energy 1995a Environmental Restoration Ranking September 27, 1995
- Department of Energy 1995b Geochemical Characterization of Background Surficial Soils Background Soils Characterization Program May 1995

ER Ranking

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139 KOH NaOH condensale lanks spill					200		8	PANs in sustaine soll Remediate with Mound Site in PA tence Remediate with Mound Site in PA tence
139 2 Hydrofluonc Acd Tank spilts 1		-00000000000000000000000000000000000000			8		2	Povis in surface soon Remediate with Mound She in P.A. lenco
153 Oil Burn Prt 171 172 173 173 174		0 0 0 0 0 0 0 0 0 0 0						Remediate with Mountal Site In FA INFOC
164 3 Rad Site #2 800 Area 887 Pad		000000000000				0000000000		investigation done analyzis not
1127 Low level Rad waste leak		00000000000				000000000		Investigation done analyzis not
150 4 Rad Side NW of B750		0000000000				000000000		Investigation done analysis not
150 A Rad Side NI 10 Zand 15 150 A Rad Side Side Side Side Side Side Side Sid		00000000				00000000		Investigation done analysis not
150 Red Site Worth BLDU 151 All 158 Red Site BE59 150 A Red Site Worth BLDU 111 3 SE Trenches T 6		0000000		\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-		0000000		Investigation done analyzis not
1115 SE Trenches T-6		000000				000000		Investigation done analysis not
111 SE Trenches T-6					-	00000		Investigation done analysis not
111 4 SE Trenches T 7		00000			-	00000		Investigation done analyzis not
111 5 SE Trenches T-8		0000			-	0000		Investigation done analysis rot
116 SE Trenches T 9		0000			-	0000		Investigation done analysis rod
9 138 Bidg 779 Cooling Tower Blowdown 1111 7 SE Trenches T 10 1111 7 SE TRENCH		000				000		Investigation done analysis not
111 7 SE Trenches T 10		00			-	00		Investigation done analysis not
1 117 SE Trenches T 10 2 137 Bidg 712/713 Cooling Tower Blowdown n n 2 137 Bidg 712/713 Cooling Tower Blowdown n n 2 137 Bidg 712/713 Cooling Tower Blowdown 134 n 171 Fire Training 154 UBC 156 Building 444 UBC 157		0			-	0		Investigation done analysis not
11 7 25 Itelicates 10 10 11 12 12 12 12 12	H			-	ļ			
2 137 Biog 712/13 Cooling Tower Blowcomn 134 n 135 n 1	+	-			_	0	L	
171 Fire Training Building 444 UBC Building 444 UBC Building 707 UBC 121 Old Process Waste Lines-includes 66 segments (35,000) 6,22 lank units-not investigated 1723 2 Valve Vault w of 707 1471 AAAS Area 1491 OpWIL to SEPS 1492 OPWIL to SEPS 1492 OPWIL to SEPS	-		-					
171 Fire Training 171 Fire Training 18uiding 44 UBC 18uiding 707 UBC 172 Ub Process Waste Lines-includes 172 Valve Vault w of 707 173 2 Valve Vault w of 707 147 1 AAAS Area 149 1 OPWL to SEPS 149 2 OPWL to SEPS 149 2 OPWL to SEPS	_			,	6	48	2	Empirical data indicates free product present
Building 444 UBC		4	-	,	3	2 0		Course conductions of other
Building 707 UBC 121 Old Process Waste Lines-includes 66 segments (35,000) & 22 tank units-not investigated 1723 Valve Vault w of 707 1723 Valve Vault w of 707 1731 Aud.S Aude 149 1 OPWI. to SEPS 149 2 OPWI. to SEPS 215 Abandoned sump in 774		4		-	7	•		
121 Old Process Waste Lines-includes 66 segments (35,000) 6.22 lank units-not investigated 173.2 Valve Vault w of 707 147.1 MAAS Area 149.1 OPWL to SEPS 149.2 OPWL to SEPS 215 Abandoned sump in 774		4		-	7	•		many community and a second second
66 segments (35,007) 6.22 fank units-not irrestigated 123.2 Valve Vault w of 707 147.1 MASA Area 149.1 OPWL to SEPS 149.2 OPWL to SEPS 215 Abandored sump in 774	1013	7		-	2	4	Se	IFSS 121 Includes the following narczard incos
123 2 Valve Vault w of 707 147 1 MAAS Area 149 1 OPWL to SEPS 149 2 OPWL to SEPS 215 Abandoned sump in 774						1		Not chemicarized, probably rightly commitment
147 1 WAAS Area 149 1 OPWL to SEPS 149 2 OPWL to SEPS 215 Abandoned sump in 774								Not characterized probably ingrey commissional
149 1 OPWL to SEPS 149 2 OPWL to SEPS 215 Abandoned sump in 774			-					
149 2 OPWL to SEPS 215 Abandaned sump in 774								Not characterized, probably highly commitment
215 Abandoned sump in 774								Not characterized, probably rightly containment
D 440 C 440 C								Not characterized, probably highly contaminated
140 4 140 3 140 0)	0	0	-	-	2	0		v١
Boundary (PAC 700-1108)		0	2	1	2	0		Process browledge of probable influent liquids
150 1 Bed Sde N of 771		0	-	-	-	0		Paved, old date exists
0 171/175 Was 24 of 774/175	0	0	-	-	•	0		Pavad, old data exists
147 1 Month Stell 197/Strap Metal Storage	0	0	1	1	2	0		Suspected source-trackin burked material-PU&D yand
ACT IN A COCA	-	0	-	-	2	0		Weste staging area-lack of data
447.7 Maridia Cata Chameral Chame	19 651	9	-	-	-	9	X X	
11/ 2 Mixure one Crientinal Contrago	0	0	-	-	-	0		Tied to Building 335 D&O Project
150 Office of the second of th	0	0	-	-	-	0		
-	0	0	_	-	-	0		

n = data not available

-	1		Total	Total	Total	Total	Total		SW Impact	Potential for	Professional	Total	↦	
Status	Rank	IHSS Number and Name	Tank		Subsurface	8	Chemical	¥	Score	Further Release	Judgment	Priority	=	Ceneral Comments
┿	_		Contents	Water	Soil Soil	Soil	Score	Score	Multiplier	Multiplier	Multiplier	Sog	187	
F	}	150 7 Rad Site S of 778		c	_	۲	0	0	1		-	0		Red Screens only
Ī	\top	151 Fuel Od Leak		6	c	₹	0	0	-	-	1	0		
1	Т	163 2 Americann Slab		-	_	۲	0	0	-	-	-	0		HPGe Survey
Ŧ	7-	210 Bido 980 Cargo Contamer		=	5	7	0	0	-	-	1	0		
Ļ	1	213 904 Pad Pondcrete Storage		_	c	=	0	0	-		-	٥		Active Storage Unit, not sampled
F	+	116 1 Bidg 447 W Loading Dock		c	c	<1	0	0	-	-	-	0		
+	+-	116 2 Bidg 444 S Loading Dock		=	c	٧	0	0	-	-	-	0		
F	۰	136 1 Cooling Tower Pond W of 444		-	_	<1	0	0	-	-	-	0		
F	۲	148 Waste Leaks		=	c	<1	0	0	-	-	-	0		
1	+-	150 8 Rad Site S of 779		=	c	<1	0	0	-	-	0.5	0		Spills cleaned up at time
F	+	164 1 Rad Site #2 - 800 Area		2	c	•	2	•	1	-	0.5	02	2	Spills demed up at fine
+	+	173 Rad Site Bido 991		2	-	٠	0	0	1	-	05	0		Spills cleaned up of time
Ŧ	1	184 Rad Site 991 Steam		-	c	۲	0	0	-	1	0.5	0		Unconfirmed-no location found
+	1	162 700 Area		_	c	۲,	0	0	-	+	0.5	0		Spills cleaned up at time
+	+		-											
7	NO.	OW Building 881 UBC		257	7	c	264	2	-	1	-	2	yes	No perimery known
1	3	111 R Trench T 11		88	v	۲	96	3	-	•	-	က	٤	Organics in groundwater
Ţ		190 Caustic Leak		12	c	٧	12	٣	-	-	-	6	2	Evaluate using approved NAMFA process
T	3	177-7111		⊽	c	2	2	-	-	+	-	-	٤	PCB lift above AL
1	3	118 2 Solvent Soils North End of Bidg 707		V	6	₹	0	0	-	1	1	۰	٤	
				=	2	⊽	0	0	-	-		0		
				=	ح	=	0	0	-	-	-	٥		
				-	c	c	0	0	+	-	-	0		Evaluate using approved NAMEA process
1				ء	c	_	0	0	-	-	-	•		
Ĺ				=	c	c	0	•	-	-	-	0		
ľ		121 T33 Invalid tank location		ء	c	=	0	0	-	-	1	-		3١.
Ľ	-	121 T34 Invalid tank location		_	_	-	0	0	-	-	-			EVENIER USING SECTION OF PROCESS
ഥ	¥0	121 T35 Invalid tank location		c	c	_	0	0	-	-	-	9	1	١.
Ĺ	MO	175 S&W B 980 Container Storage Facility		-	_	⊽	0	0	-	-	-	9	1	EVENIES USING SEPROVED INVITA PROCESS
Γ		181 Building 334 Cargo Container Area		c	c	V	0	0	-	-	-	اد		il.
1	ě	182 444/453 Drum Storage Area		_	c	•	0	0	-	-	-	0	2	Evaluate using approved NAMFA process
Ŧ				=	c	٧.	0	0	-	+	-	0		Evaluate using approved NAAFA process
1				=	c	₽	0	0	-	-	-	٥		Evaluate using approved NAMFA process
Ŧ				-	-	⊽	0	0	-	-	-	•		Evaluate using approved NAMFA process
Ŧ				_	c	₹	0	0	-	-	-	٥		Evaluate using approved NAMFA process
1	3			-	_	₽	0	0	-	-	-	0		Evaluate using approved NAMFA process
+	30			=	=	6	0	0	-	-	-	٥		Evaluate using approved NAMFA process
1	3			=	c	٥	0	0	-	-	-	0		Evaluate using approved NANFA process
+	3			=	-	c	0	0	-	-	-	0		Evaluate using approved NAMFA process
+	Š			=	c	_	0	0	-	-	-	0		Evaluate using approved NAMFA process
+	3	124/M Lithum Metal Destruction Site		⊽	٧	⊽	0	0	-	-	-	0		Evaluate by NANIFA processite B335 D&D
+	30	134(C) I sham Metal Destruction Site		=	-	V	0	0	-	-	-	0		Evaluate by NAANFA processive B335 D&D
4	5					V	6	c	-	-	-	0		Evaluate using approved NAMFA process
_	8	LOW 156 1 Radioactive Site		=			,	,					-	

n = data not avaitable

r			Total	Total	Total	Total	Total		SW Impact	Potential for	Professional	Total		
Status	Rank	IHSS Number and Name	Tank	Ground	Subsurface	8	Chemical	AF	Score	Further Release	Judgment	Priority	Exceeds	General Comments
Τ		_	Contents	Water	Soa	Sol	Score	Score	Multiplier	Multiplier	Multiplier	Score	Tier 1	
Γ	3	150 6 Loading Dock		=	ء	₹	0	0	-	-	-	0		Evaluate with NAMFAPCB Hot Spot only
Γ	₹ 0	216.2 East Spray Field OU 2		•	c	٥	0	0	-	-	-	0		PPRG ratio less than 1 "2 downgradient welts
	30			•c	c	۷.	0	0	-	-	-	0		PPRG ratio tess than 1 *2 downgradient welts
Τ	10			-	c	V	0	0	-	-	0.5	0		Removed during PA construction, verify only
Τ	TOW			₹	₹	-	-	-	-	-	0.5	90	2	
Γ	₹ 01	LOW 192 Pipeline		3	c	=	3	-	-	-	0.5	90	2	NFA-Caustic Spill
Г	70%	104 Liquid Dumping		دا	10	<1	10	7	2	-	90	4	yes	HRA less than 10-6
Γ	MO1			172	1	27	199	4	-	-	0.5	2	2	HRA, 105-4 to 10-6
Γ	30			₹	8	Ų	34	2	2	-	90	2	yes	H-RA, less than 10-6
3	3			190	₹	٥	190	-	-	-	0.5	2	2	Passed CDPHE screen-CAD/R00 complete
Γ	3	133 4 Ash Pit #4		4	<1	2	46	2	-	-	90	-	2	H-RA, 10E-4 to 10-6
	₹			17	۷.	<1	4	2	-	-	0.5	-	2	HHRA, 10E-4 to 10-6
	30	133 1 Ash Pit #1		4	2	۲	46	2	-	-	90	-	2	H-RA, 10E-4 to 10-6
	<u>₹</u>	133.2 Ash Pt #2		77	2	<دا	46	2	-	-	0.5	-	ટ	H#RA, 10E-4 to 10-6
	3	133 3 Ash Pt #3		77	۲۰	₽	77	2	-	-	0.5	-	2	HHRA, 10E-4 to 10-6
	30	119.2 Solvent Spill Site		6	۲	دا	6	-	2	-	0.5	-	2	HHRA, less than 10-6
Γ	MOT	133.5 Incinerator		E	<1	<1	0	0	-	-	0.5	0		H#RA, 10E-4 to 10-6
Γ	3	133.6 Concrete Wash Pad		u	<1	<1	0	0	-	-	90	0		H-RA, 10E-4 to 10-6
Γ	₹ 01	142 1 Pond A 1		u	۷1	<1	0	0	-	-	0.5	0		HHRA, 10E-4 to 10-6 wipond data
Г	₹	142.2 Pond A 2		~	۷.	دا	0	0	1	-	90	0		HHRA, 10E-4 to 10-6 wipond data
Γ	3	142.3 Pond A-3		u	۷1	<1	0	0	-	-	90	0		HHRA, 10E-4 to 10-6 wipond data
Γ	3			=	<1	<1	0	0	-	-	90	0		HHRA, 10E-4 to 10-6 wipond & sediment data
Γ	MOJ	142.6 Pond B-2		_	۷	<1	0	0	-	-	0.5	0		HERA, 10E-4 to 10-6 wipond & sediment data
	3	142.7 Pond B-3		=	۲۰	41	0	0	-	-	90	0		HHRA, 10E-4 to 10-6 vepond & sediment data
Γ	3	142.8 Pond B-4		-	٧	V	0	0	-	-	0.5	0		HHRA, 10E-4 to 10-6 wipond & sediment data
Г	3	199 Offsile Land Surface		=	٥	<1	0	0	1	-	0.5	0		HHRA, 10E-4 to 10-6 No groundwater Issues
Γ	3	7 200 Great Western Reservoir		⊽	۷.	4	0	0	-	-	0.5	0		HHRA, 10E-4 to 10-6, plus sodiment samples
Γ	M 01	1 167.2 Landfill Pond Spray Area		c	۷.	<1	0	0	-		90	0		H#RA, 10E-4 to 10-6
Γ	3 0	1 167.3 Landfill South Spray Area		-	=	٥	0	•	-	-	0.5	0		Focused HHRA, 10E-4 to 10-6
Г	₹	102 Oil Studge Pit		٧	٥	۷	٥	0	2	-	0.5	0		HHRA, less than 10-6
	10%	-		⊽	٥	٥	۲	0	2	-	0.5	0		HHRA, less than 10-6
Γ	₹	_		⊽	٥	₹	0	0	2	-	0.5	0		HERRA, bess than 10-6
Γ	301	105.2 E Out-of-Service Fuel Tank		٧	٥.	دا	0	0	2	1	0.5	0		HHRA, less than 10-6
	30	106 Outsall		₹	<1	<1	0	0	2		0.5	0		H#RA, less than 10-6
Γ	3	_		٧	<1	<1	0	0	2	1	0.5	0		HHRA, less than 10-6
	₩ 07	/ 145 Santary Waste Line Leak		₹	۸4	<1	0	0	2	•	0.5	0		HHRA, less than 10-6
	3	1 142.10 Pond C-1		2	۲۷	<1	0	0	-		0.5	0		HHRA, less than 10-6 includes pond & sediments
	MO1	1 142.11 Pond C-2		c	<1	<1	0	0	1	-	0.5	0		HHRA, less than 10-6 Includes pond & sediments
	₹ 01	/ 167 1 N Landfill Spray Area		⊽	<1	۸1	0	0		-	0.5	0		H-RA, less than 10-6
	108	165 Triangle Area		215	٥	14	229	4	2	-	0.5	4	yes	HHRA, less than 10-6 metals
	₹ 01	LOW 141 Studge Dispersal Area		۲,	٥	<1	0	0	7	_	0.5	0		HHRA less than 10-6

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Commends			HHRA, less than 10-6	Passad CTIPHE screen	Descent Chotel scribts		Passed CUPPE: Screen	Passad COPHE screen	Passed CDPHE screen	Passed CDPHE screen	Passed COPHE screen	Passed CDPHE sonen w/ pond and sediment data	Passed CDPHE screen w/ pond and sediment data	Pages CDPHE screen	Passed CDPHE soven	RCBA Cheen Closure CAD/ROD complete	BCSA Clean Closure CADIRGO complete	RCBA Claus Closure CAD/ROD complete	Abs course from CADROD complete	A. CADROD Comple	AL CANADOD Condide	No source source of					
	COBBOS	Tier 1																									
5	Priority	Score	٥			3	0	0	0	0	0	0	6	٠	,	•	•	, ,	9	•	•	•		1			
TOWESTON IN	Judgment	Multipler	40	2	60	CO	0.5	0.5	0.5	50	50	200	9	2	200	900	3	3	2	60	60	0.2					
LOSSINGS NO.	Further Release	Matician				-	-	-	-		-	-	-	- -	-	-			-	-	-	-					
SW Impact	S	t,		-	-	-	-	-	•	1	-		1	-		-	-		-	-	-	-					
	AIR	3	8	-	0	0	0	-	,	9	9	•	•	-	0	0	-	0	•	0	0	0					
100	- Therese	S C C C C C C C C C C C C C C C C C C C	B	0	0	0	•			-		0	9	0	•	•	0	0	0	0	0	0					
Total	1	Source	50	₹	₹	⊽	٧		=	=	=	V	5	⊽	⊽	⊽	-	٤	c	c	e	=					
Total	L	Superingo	8	7	۲	٧	V	,	7	v	⊽	V	⊽	٧		⊽	c	c	c	=	=	=					
Total	T		Water	<u>۲</u>	₹	V	V	,	5	V	⊽	⊽	⊽	V	₹	2	c	c	c	•	•	٥					
Total	1	ACK.	Contents																								
				LOW 156.2 Soil Disposal Area	v lake		Keservor	LOW 209 Surface Disturbances	LOW 166 1 Landfill Trench A	LOW 166.2 Landfill Trench B	LOW 166 3 Landfill Trench C	LOW F167 3 Former S Spray Field	V	8-5	1 CW 142 12 Walnut and Indiana Pond	OW 216 1 Fact Sorav Fleid - OU 6	CW 179 Res Drum Storage Rm. 145	Caw 190 Bass Drawn Storage Rm 104	Ow 204 Octobed Branism Chin Roaster	170 Door Course Storms Dm 165	CONTRACTOR CONTRACTOR DOLLAR	LOW 211 DOOT LAURI SUMMY #201 LT.	James Hearingin	1006	Morregistion Complete in 1996	fication	
		IHSS Number and Name		156.2 Soll E	Ow 201 Standley lake		LOW 202 MOWER RESERVOR	209 Surface	166 1 Land	166.2 Land	166 3 Land	F167 3 Fon	LOW 142 4 Pond A-4	142 9 Pond 8-5	442 12 Wa	216 1 Fact	179 RAGS I	180 BRR3 F	Sec.	120	1/0 0001	1000117	1000 /17		Action Com	Meads further investigation	
		Rank		NO.	Š	3	ğ	<u>8</u>	3	₹0	3	₹ <u>0</u> 1	30	30	Š	3	+	┿	┿	+	+	+	+	_	_	_	ℸ
١		Status															3	3	3	3	3	3	3	1	3	3	

Pastank, 9/30/96